

Remarks

Claims 1, 3-8, 10-16, 18-20, 22-26, and 67-72 are pending. Reconsideration of the application is respectfully requested in view of the foregoing amendments and following remarks.

The Applicant previously canceled or authorized cancellation of claims 2, 9, 17, 21, 27-66 and 73 without prejudice. The Examiner rejected all pending claims of the application (09/196,836) in an Advisory Action after Final, dated July 22, 2005, [“Advisory action”] The Claims were rejected (presumably) under 30 U.S.C. 103(a) as being unpatentable over Hunt -- “Coign: Efficient Instrumentation for Inter-Component Communication Analysis” [“Hunt”] in view of U.S. Patent No. 5,893,118 to Sonderegger [“Sonderegger”].

The Applicant respectfully disagrees with the rejections of the claims.

I. IDS References.

In the Advisory action, the Examiner writes: “Since the applicant’s concerned IDS references are not present in the application (EDAN), applicant is kindly requested to submit all the previously submitted references.” Applicant is including with this RCE a CD which contains all non-patent reference from the six IDS’s that have been submitted in the parent case. For the convenience of the Examiner, Applicant is also including with this RCE copies of the IDS’s, associated Forms 1449, and associated postcards showing receipt by the U.S. Patent and Trademark Office.

II. Hunt and Sonderegger, taken separately or in combination, fail to teach or suggest at least one limitation of each of claims 1, 3-8, 10-16, 18-20, 22-26, and 67-72.

Amended claim 1 recites, in part:

determining if the interface has been wrapped by checking a data structure that tracks interface wrapping for the plural units of the software program *by determining if there is an existing entry for the interface in the data structure;*

if the interface has been wrapped, returning a reference to the existing entry for the interface from the data structure, wherein the existing entry is a reference to an existing interface wrapper related to the interface which associates the interface with a unit identity for the unit that exposes the interface;

if the interface has not been wrapped,
discovering the unit identity of the unit that exposes the interface;
adding a new entry to the data structure, wherein the new entry *is a reference to a new interface wrapper related to the interface which associates the interface with the discovered unit identity; and*
returning a reference to the new entry.

Amended claim 16 recites in part:

determining if the interface is wrapped by checking a data structure that tracks interface wrapping for plural components of software *for an entry related to the interface which associates the interface with one of the plural components that exposes the interface;*

Amended claim 20 recites in part:

determining if the interface is wrapped using a hash table *wherein if the interface is wrapped, a reference to an existing interface wrapper related to the interface is stored in the hash table; and wherein the existing interface wrapper stores a reference to instrumentation, the reference to the interface, and component identity of the component that exposes the interface;*

if the interface is wrapped, providing to a client component the reference to the existing interface wrapper;

The Applicant respectfully submits that the art cited by the Examiner, taken separately or in combination, fails to teach or suggest the above-cited language of amended claims 1, 16, or 20, above. The Applicant understands the Examiner to agree that Hunt does not teach or suggest the above-cited language of claims 1, 16, and 20, respectively. Sonderegger also does not teach or suggest the above-cited language of claims 1, 16, and 20, respectively.

The Examiner states in the Advisory action “Examiner has interpreted limitations, for example ‘interface’ and ‘interface wrapping’ containing two unrelated interfaces.” The claims, as amended, describe an interface, if wrapped, having a related interface wrapper (claims 1 and 20) or entry in a data structure (claim 16).

The Examiner also states: “The combined teachings of Hunt and Sonderegger-Novell facilitate checking of whether the interface is wrapped or not and the entry being new entry because the checking of interface would help the software know whether the interface belongs to the object that encapsulates and delegates to another object.” Applicant respectfully disagrees. Sonderegger describes wrapping only once, in the paragraph quoted below.

In the embodiment shown in FIG. 6, the binary locator attribute 100 has a stream as its value. The stream provides direct access to the byte codes 70 (FIG. 3) of the software component 48 that is identified by the Java class name in the identifier attribute 96 of the database object 94. The byte codes 70 in the stream may also correspond to multiple classes (the identifier attribute 96 may be multi-valued) *if the byte codes for individual classes are “wrapped” or otherwise aggregated into a format suitable for streaming, such as the familiar *.zip format.* [Sonderegger, 8: 46-55.] [Emphasis added.]

In the above passage, wrapping is described as “aggregate[ing] [byte codes] into a format suitable for streaming.” This neither teaches nor suggests “determining if the interface is wrapped using a hash table *wherein if the interface is wrapped, a reference to an existing interface wrapper associated with the interface is stored in the hash table; and wherein the existing interface wrapper stores a reference to instrumentation, the reference to the interface, and component identity of the component that exposes the interface*” as recited in claim 20. Nor does the above passage teach or suggest the above-cited language of claims 1 and 16, respectively.

Moreover, in Sonderegger byte codes are “wrapped” to allow *multiple* classes to be streamed together; [Sonderegger, 8: 50-55.] which leads away from the interface operations of claims 1, 16, and 20, respectively.

In view of the foregoing remarks about claims 1, 16, and 20, the merits of the separate patentability of dependent claims 3-8, 10-15, 18-19, 22-26, and 67-72 are not belabored at this point. Claims 1, 3-8, 10-16, 18-20, 22-26, and 67-72 should be allowable. Such action is respectfully requested at this time.

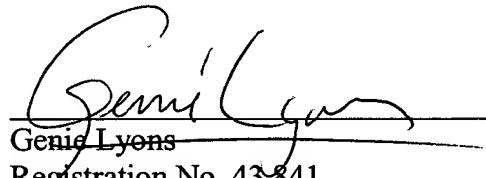
Conclusion

Claims 1, 3-8, 10-16, 18-20, 22-26, and 67-72 should be allowable. Such action is respectfully requested.

Respectfully submitted,

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By



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AUG 24 2005

PATENT
Atty. Ref. No. 3382-51286

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Galen C. Hunt

Application No.: 09/196,836

Filed: November 20, 1998

Art Unit: 2786

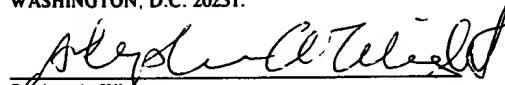
For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING
UNDOCUMENTED INTERFACES, AND
DETECTING PAIR-WISE LOCATION
CONSTRAINTS

Date: February 16, 1999

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on February 16, 1999 as First Class Mail in an envelope addressed to: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.


Stephen A. Wight

Attorney for Applicant

COPY

INFORMATION DISCLOSURE STATEMENT

Applicant submits herewith information of which he is aware, and which he believes may be material to the examination of the application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. §1.56. The information is listed on the attached Form PTO-1449 and copies are enclosed.

Applicant call the Examiner's attention to the following co-pending U.S. patent applications, which are commonly assigned as the above-referenced patent application:

- 1) Application No. 09/197,080
For: APPLICATION PROFILING USING STRUCTURAL METADATA
DESCRIPTION FOR NETWORK-INDEPENDENT AUTOMATIC
PARTITIONING AND DISTRIBUTION
Applicant: Galen C. Hunt
- 2) Application No. 09/197,009
For: HEAVYWEIGHT AND LIGHTWEIGHT INSTRUMENTATION
Applicant: Galen C. Hunt
- 3) Application No. 09/197,246
For: REVERSIBLE LOAD-TIME DYNAMIC LINKING
Applicant: Galen C. Hunt

PATENT
Atty. Ref. No. 3382-51286

- 4) Application No. 09/197,242
For DYNAMIC CLASSIFICATION OF SECTIONS OF SOFTWARE
Applicant: Galen C. Hunt
- 5) Application No. 09/197,211
For SUMMARIZED APPLICATION PROFILING AND QUICK NETWORK
PROFILING
Applicant: Galen C. Hunt
- 6) Application No. 09/197,226
For AUTOMATIC DETECTION OF PER-UNIT LOCATION CONSTRAINTS
Applicant: Galen C. Hunt
- 7) Application No. 09/196,974
For INTERCEPTION OF UNIT CREATION REQUESTS BY AN AUTOMATIC
DISTRIBUTED PARTITIONING SYSTEM
Applicant: Galen C. Hunt

In view of the secrecy provisions of 37 C.F.R. §1.14, Applicants have not provided a copy of the above-referenced co-pending U.S. patent applications because submitting a copy of these patent applications could be viewed as a waiver of the confidentiality that the Applicant is guaranteed under 35 U.S.C. § 122 and 37 C.F.R. § 1.14. Applicants have not listed these co-pending applications on the accompanying 1449 form and request that they not be listed on the face of the patent, in the event that it issues, to preserve their secrecy.

If a fee is required under 37 C.F.R. § 1.17(p), the Commissioner is hereby authorized to charge Deposit Account No. 02-4550.

Respectfully submitted,

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LEIGH & WHINSTON, LLP

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Docket: 3382-51286	App: 09/196,836		
				'Applicant: Galen C. Hunt			
				Filed: 11.20.98	Group: 2786		
U.S. PATENT DOCUMENTS							
Init. *		Number	Date	Name	Class	Sub	Filed
		3,427,443	02.11.69	C.T. Apple et al.			
		3,551,659	12.29.70	Forsythe			
H.P.		4,819,233	04.04.89	Delucia et al.			
		5,579,520	11.26.96	Bennett			
		5,752,038	05.12.98	Blake et al.			
		5,790,858	08.04.98	Vogel			
FOREIGN PATENT DOCUMENTS							
		Number	Date	Country	Class	Sub	
OTHER DOCUMENTS							
H.P.		Stephen J. Hartley, "Compile-Time Program Restructuring in Multiprogrammed Virtual Memory Systems," <i>IEEE Transactions on Software Engineering</i> , Vol. 14, No. 11, November 1988					
		R.R. Heisch, "Trace-directed program restructuring for AIX executables," <i>IBM J. Res. Develop.</i> , Vol. 38, No. 5, September 1994					
<i>Missing</i>							
H.P.	RECEIVED	Karl Pettis and Robert C. Hansen, "Profile Guided Code Positioning," Proceedings of the ACM SIGPLAN'90, Conference on Programming Language, Design and Implementation, June 20-22, 1990.					
H.C.	MAR 01 1999 GROL P 5100	Chang et al., "Using Profile Information to Assist Classic Code Optimizations," <i>Software-Practice and Experience</i> , Vol. 21(12), 1301-1321, December 1991					
H.P.		Speer et al., "Improving UNIX Kernel Performance using Profile Based Optimizations," 1994 Winter USENIX, January 17-21, 1994, San Francisco, CA					
H.P.		Thomas Ball and James R. Larus, "Optimally Profiling and Tracing Program," <i>University of Wisconsin Computer Sciences Technical Report 1031</i> , September 6, 1991					

INFORMATION DISCLOSURE STATEMENT P E			Docket: 3382-51286	App: 09/196,836
BY APPLICANT			Applicant: Galen C. Hunt	
			Filed: 11.20.98	Group: 2786
H.P.			James R. Larus and Thomas Baumann, "Rewriting Executable Files to Measure Program Behavior," University of Wisconsin Computer Sciences Technical Report 7083, March 25, 1992	
			RECEIVED FEB 25 1999 ACM Group 2700	
			Vivek Sarkar, "Determining Average Program Execution Times and their Variance," ACM 0-89791-306/X/89/0006/0298, 1989	
			Robert Endre Tarjan, "Data Structures and Network Algorithms," CBMS-NSF Regional Conference Series in Applied Mathematics, Chapter 6, 71-83,1983	
EXAMINER: <i>[Signature]</i>			DATE 8/15/04	

*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.



CLIENT/MATTER NO. 3382 51286 ATTY/SEC KBR JV
INVENTOR(S): Galen C. Hunt
SERIAL NO. 09/196836 FILING DATE 11.20.98
02.16.99

The following, due _____, mailed _____
by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

Amendment	After Final Rejection	Months Extension of Time
<input type="checkbox"/> Notice to File Msg. Parts - Date	<input type="checkbox"/> Letter to Official Draftsman	
<input type="checkbox"/> Comb. Decl./POA	<input type="checkbox"/> Notice of Allowability	
<input type="checkbox"/> Verf'd. Stmt. Claiming Sm. Entity Status	<input type="checkbox"/> Sht(s) Drawings <input type="checkbox"/> Formal	
In connection with Issuance of a Patent:		
<input type="checkbox"/> Supp. Declaration	<input checked="" type="checkbox"/> Form PTO-1449/Ref.	
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Assignment to: _____ PTO 1595		
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CLIENT/MATTER NO. 3382 51286 ATTY/SEC KBR JV
INVENTOR(S): Galen C. Hunt
SERIAL NO. 09/196836 FILING DATE 11.20.98
02.16.99

The following, due _____, mailed _____
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Surcharge - Late Filing Fee, Oath, or Declaration <input type="checkbox"/> Small Entity <input type="checkbox"/> All Others		
Assignment to: _____ PTO 1595		
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KBR En 9/29/99 3382-51286 MS116626.8

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Art Unit 2786

Galen C. Hunt

Application No.: 09/196,836

Filed: November 20, 1998

For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS,
WRAPPING INTERFACES, HANDLING
UNDOCUMENTED INTERFACES, AND
DETECTING PAIR-WISE LOCATION
CONSTRAINTS

Examiner:

Date: September 29, 1999

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on September 29, 1999 as First Class Mail in an envelope addressed to: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.


Stephen A. Wright
Attorney for Applicant

COPY

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)

TO THE ASSISTANT COMMISSIONER FOR PATENTS
Washington, DC 20231

Sir:

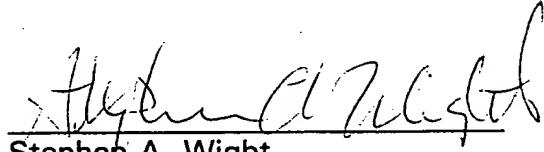
Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent.

This Information Disclosure Statement was filed before applicant received a first Office action on the merits. However, if a first Office action on the merits was mailed before this Information Disclosure Statement was filed, please charge any fees that may be required in connection with the filing of this Information Disclosure Statement, or credit overpayment, to Deposit Account No. 02-4550.

Respectfully submitted,

KLARQUIST SPARKMAN CAMPBELL
LEIGH & WHINSTON, LLP

By

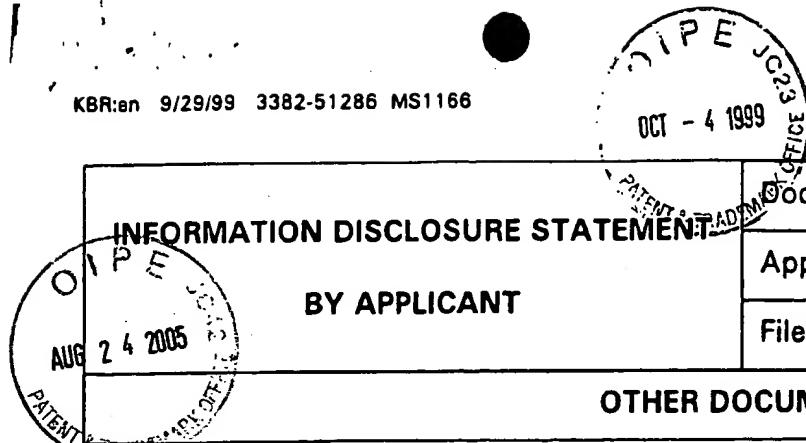


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OCT - 4 1999



INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Docket: 3382-51286	App: 09/196,836
			Applicant: Galen C. Hunt	Filed: 11/20/98
OTHER DOCUMENTS				
			Galen C. Hunt, "Using Inter-Component Communication Analysis to Understand Component Applications," Ph.D. Thesis Proposal, University of Rochester, Rochester, New York, 42 pp. (January 1997).	
			Galen C. Hunt and Michael L. Scott, "Coign: Efficient Instrumentation for Inter-Component Communication Analysis," URCS Tech Report 648, University of Rochester, Rochester, NY, 11 pp. (February 1997).	
			Galen C. Hunt, "Using Inter-Component Communication Analysis to Understand Component Applications," Slide Presentation at Six Month Review of Ph.D. Thesis Project, University of Rochester, Rochester, New York, 9 pp. (April 1997).	
			Galen C. Hunt, "Inter-Component Communication Analysis: Dynamic Discovery and Placement of Components in Distributed Applications," Handout from Third Conference on Object-Oriented Technologies and Systems, 2 pp. (May 1997).	
			Galen C. Hunt, "Inter-Component Communication Analysis: Dynamic Discovery and Placement of Components in Distributed Applications," Slide Presentation at Third Conference on Object-Oriented Technologies and Systems, 7 pp. (May 1997).	
			RECEIVED	
			OCT 07 1999	
			GROUP 2700	
EXAMINER: <i>Hunt</i>			DATE <i>Stacy</i>	
*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.				

AUG 24 2005

PATENT & TRADEMARK OFFICE

CLIENT/MATTER NO. 3322-54281 ATTY/SEC KR2-EN

INVENTOR(S): Galen C. Hunt

SERIAL NO. 09/196,836 FILING DATE 11/20/98

The following, due _____, mailed 9/29/99,
by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

Amendment	After Final Rejection	Months Extension of Time
<input type="checkbox"/> Notice to File Msg. Parts - Date		<input type="checkbox"/> Letter to Official Draftsman
<input type="checkbox"/> Comb. Decl./POA		<input type="checkbox"/> Notice of Allowability
<input type="checkbox"/> Verf'd. Stmt. Claiming Sm. Entity Status		<input type="checkbox"/> Sht(s) Drawings <input type="checkbox"/> Formal
In connection with Issuance of a Patent:		<input checked="" type="checkbox"/> IDS <input checked="" type="checkbox"/> Form PTO-1449/Ref.
<input type="checkbox"/> Supp. Declaration	<input type="checkbox"/> Form PTOL-85b	<input type="checkbox"/> Petition
<input type="checkbox"/> Issue & Advance Order fees		<input checked="" type="checkbox"/> Transmittal Ltr. <input checked="" type="checkbox"/> dupl. <input type="checkbox"/> tripl.
Surcharge - Late Filing Fee, Oath, or Declaration		<input type="checkbox"/> Small Entity <input type="checkbox"/> All Others
Assignment to:		<input type="checkbox"/> PTO 1595
Check No. <u>UCL - 4 1999</u>	for \$ <u>.....</u>	<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority

CLIENT/MATTER NO. 3322-54281 ATTY/SEC KR2-EN

INVENTOR(S): Galen C. Hunt

SERIAL NO. 09/196,836 FILING DATE 11/20/98

The following, due _____, mailed 9/29/99,
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Amendment	After Final Rejection	Months Extension of Time
<input type="checkbox"/> Notice to File Msg. Parts - Date	<u>4 1999</u>	<input type="checkbox"/> Letter to Official Draftsman
<input type="checkbox"/> Comb. Decl./POA		<input type="checkbox"/> Notice of Allowability
<input type="checkbox"/> Verf'd. Stmt. Claiming Sm. Entity Status		<input type="checkbox"/> Sht(s) Drawings <input type="checkbox"/> Formal
In connection with Issuance of a Patent:		<input checked="" type="checkbox"/> IDS <input checked="" type="checkbox"/> Form PTO-1449/Ref.
<input type="checkbox"/> Supp. Declaration	<input type="checkbox"/> Form PTOL-85b	<input type="checkbox"/> Petition
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Surcharge - Late Filing Fee, Oath, or Declaration		<input type="checkbox"/> Small Entity <input type="checkbox"/> All Others
Assignment to:		<input type="checkbox"/> PTO 1595
Check No. <u>UCL - 4 1999</u>	for \$ <u>.....</u>	<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority



1/10/00 3382-51286 MS116626.8

PATENT
Atty. Ref. No. 3382-51286

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Galen C. Hunt

Application No.: 09/196,836

Filed: November 20, 1998

Art Unit: 2786

For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING
UNDOCUMENTED INTERFACES, AND
DETECTING PAIR-WISE LOCATION
CONSTRAINTS

Date: January 10, 2000

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on January 10, 2000 as First Class Mail in an envelope addressed to: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.



Mark L. Becker, Esq.
Attorney for Applicant

COPY

INFORMATION DISCLOSURE STATEMENT

Applicant submits herewith information of which he is aware, and which he believes may be material to the examination of the application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56.

Applicant calls the Examiner's attention to the following co-pending U.S. patent application, which is commonly assigned as the above-referenced patent application:

- 1) Application No. 09/349,732
For: SERVICE INSTALLATION ON A BASE FUNCTION AND PROVISION OF A
PASS FUNCTION WITH A SERVICE-FREE BASE FUNCTION SEMANTIC
Applicant: Galen C. Hunt

In view of the secrecy provisions of 37 C.F.R. § 1.14, Applicant has not provided a copy of the above-referenced co-pending U.S. patent application because submitting a copy of the patent application could be viewed as a waiver of the confidentiality that the Applicant is guaranteed under 35 U.S.C. § 122 and 37 C.F.R. § 1.14. Applicant has not listed the co-pending application on an accompanying 1449 form and requests that it not be listed on the face of the patent, in the event that it issues, to preserve the secrecy of the co-pending application.

PATENT
Atty. Ref. No. 3382-51286

If a fee is required under 37 C.F.R. § 1.17(p), the Commissioner is hereby authorized to charge Deposit Account No. 02-4550.

Respectfully submitted,

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AUG 24 2005

PAIEN BR:jjv 1/10/00 3382-51286 MS116626.8

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Docket: 3382-51286	App: 09/196,836
		Applicant: Galen C. Hunt	
		Filed: 11/20/98	Art Unit: 2786

OTHER DOCUMENTS

			Aral, Ziya et al., "Efficient Debugging Primitives for Multiprocessors," ASPLOS-III Proceedings, Third International Conference on Architectural Support for Programming Languages and Operating Systems, Boston, Massachusetts, pp. 87-95 (April 1989)
			Aral, Ziya et al, "Non-Intrusive and Interactive Profiling in Parasight," ACM/SIGPLAN PPEALS 1988, New Haven, Connecticut, pp. 21-30. (July 1988)
			Osman, Eric, "DDT Reference Manual," Massachusetts Institute of Technology Artificial Intelligence Laboratory, Memo No. 147A, pp. 81 (September 1971)
			Evans, Thomas G., "On-Line Debugging Techniques: A Survey," AFIPS Conference Proceedings, Vol. 29, Fall Joint Computer Conference, pp. 37-50 (November 1966)
			Gill, S., "The Diagnosis of Mistakes in Programmes on the EDSAC," Proceedings of the Royal Society of London, Series A. Mathematical and Physical Sciences, Vol. 206, London, England, pp. 538-554 (May 1951)
			Kessler, Peter B., "Fast Breakpoints: Design and Implementation," Proceedings of the ACM SIGPLAN'90 Conference on Programming Language Design and Implementation, White Plains, New York, pp. 78-84 (June 1990)

EXAMINER:	DATE
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*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.



CLIENT/MATTER NO. 3382-51286 ATTY/SED KBR:EN
INVENTOR(S): Gaten C. Hunt
SERIAL NO. 09/196,836 FILING DATE 11.20.98

The following, due _____, mailed 01.10.00,
by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

<input type="checkbox"/> Amendment	<input checked="" type="checkbox"/> After Final Rejection	<input type="checkbox"/> Months Extension of Time
<input type="checkbox"/> Notice to File Msg. Parts - Date	<input type="checkbox"/> JAN 18 2000	<input type="checkbox"/> Letter to Official Draftsman
<input type="checkbox"/> Comb. Decl./POA		<input type="checkbox"/> Notice of Allowability
<input type="checkbox"/> Verf'd. Stmt. Claiming Sm. Entity Status		<input type="checkbox"/> Shrt(s) Drawings <input type="checkbox"/> Formal
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<input type="checkbox"/> Surcharge - Late Filing Fee, Oath, or Declaration		<input type="checkbox"/> Small Entity <input type="checkbox"/> All Others
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<input type="checkbox"/> Check No. _____ for \$ _____		<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority

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KBR:jiv 1/19/00 3382-51286 MS116626.8

AUG 24 2005

PATENT

Atty. Ref. No. 3382-51286

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Galen C. Hunt

Art Unit: 2786

Application No.: 09/196,836

Filed: November 20, 1998

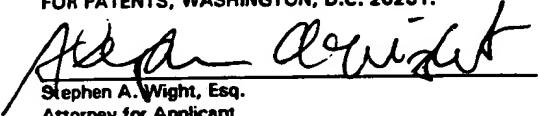
For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING UNDOCUMENTED
INTERFACES, AND DETECTING PAIR-WISE
LOCATION CONSTRAINTS

Date: January 19, 2000

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on January 19, 2000, as First Class Mail in an envelope addressed to: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.


Stephen A. Wight, Esq.

Attorney for Applicant

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent.

This Information Disclosure Statement was filed before application received a first Office action on the merits. However, if a first Office action on the merits was mailed before this Information Disclosure Statement was filed, please charge any fees that may be required in connection with the filing of this Information Disclosure Statement, or credit overpayment, to Deposit Account No. 02-4550.

Respectfully submitted,

KLARQUIST SPARKMAN CAMPBELL
LEIGH & WHINSTON, LLP

By:


Stephen A. Wight

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Telephone: (503) 226-7391
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>PATENT & TRADEMARK OFFICE</small> <small>AUG 24 2005</small>			Docket: 3382-51286	App: 09/196,836
			Applicant: Galen C. Hunt	
			Filed: 11/20/98	Art Unit: 2786

OTHER DOCUMENTS

			Keppel, David, "A Portable Interface for On-The-Fly Instruction Space Modification," University of Washington, Seattle, Washington, pp. 86-94 (1991)
			Larus, James R. et al., "EEL: Machine-Independent Executable Editing," SIGPLAN Conference on Programming Language Design and Implementation, pp. 291-300 (June 1995)
			Romer, Ted et al., "Instrumentation and Optimization of Win32/Intel Executables Using Etch," Proceedings of the USENIX Windows NT Workshop 1997, Seattle, Washington, pp. 1-7 (August 1997)
			Srivastava, Amitabh et al., "ATOM: A System for Building Customized Program Analysis Tools," Proceedings of the SIGPLAN '94 Conference on Programming Language Design and Implementation, Orlando, Florida, pp. 196-205 (June 1994)
			Zhang, Xiaolan et al., "System Support for Automated Profiling and Optimization," Proceedings of the Sixteenth ACM Symposium on Operating System Principles, Saint-Malo, France, 12 pages (October 1997)
			Lee, Dennis et al., "Execution Characteristics on Desktop Applications on Windows NT," 25 th Annual International Symposium on Computer Architecture, 12 pages (June 1998)

EXAMINER:

DATE

*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.



AUG 24 2005

CLIENT/MATTER NO. 3582 51286

INVENTOR(S): Hunt

SERIAL NO. 09/196,836

ATTY/SEC KBR/GN

The following, due 11/20/98, mailed 01/19/00,
by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

Amendment	After Final Rejection	Months Extension of Time
<input type="checkbox"/> Notice to File Msg. Parts - Date	<input checked="" type="checkbox"/>	<input type="checkbox"/> Letter to Official Draftsman
<input type="checkbox"/> Comb. Decl./POA	<input checked="" type="checkbox"/>	<input type="checkbox"/> Notice of Allowability
<input type="checkbox"/> Verf'd. Stmt. Claiming Sm. Entity Status	<input checked="" type="checkbox"/>	<input type="checkbox"/> Sht(s) Drawings <input type="checkbox"/> Formal
<input type="checkbox"/> In connection with issuance of a Patent:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Form PTO-1449/Ref.
<input type="checkbox"/> Supp. Declaration <input type="checkbox"/> Form PTO-85b	<input checked="" type="checkbox"/>	<input type="checkbox"/> Petition
<input type="checkbox"/> Issue & Advance Order fees	<input checked="" type="checkbox"/>	<input type="checkbox"/> Transmittal Ltr. <input checked="" type="checkbox"/> dupl. <input type="checkbox"/> tripl.
<input type="checkbox"/> Surcharge - Late Filing Fee, Oath, or Declaration	<input type="checkbox"/>	<input type="checkbox"/> Small Entity <input type="checkbox"/> All Others
<input type="checkbox"/> Assignment to: _____	<input type="checkbox"/>	<input type="checkbox"/> PTO 1595
<input type="checkbox"/> Check No. _____ for \$ _____	<input type="checkbox"/>	<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority

O 1 P
AUG 24 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Hunt
 Application No. 09/196,836

Filed: November 20, 1998

For: INSTRUMENTATION FOR RELATING
 INTERFACES AND UNITS, WRAPPING
 INTERFACES, HANDLING UNDOCUMENTED
 INTERFACES, AND DETECTING PAIR-WISE
 LOCATION CONSTRAINTS

Examiner: Not yet assigned

Date: March 9, 2001

Art Unit: 2786

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on March 9, 2001 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.


 Kyle B. Ringhart
 Attorney for Applicant

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)

COMMISSIONER FOR PATENTS
 Washington, DC 20231

COPY

Sir:

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent.

Applicant filed this Information Disclosure Statement within three months of the filing date of a national application, within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, before the mailing date of a first Office action on the merits, or before the mailing of a first Office action after the filing of request for continued examination under § 1.114. However, if the Patent Office determines that a fee is required for

Applicant to file this Information Disclosure Statement, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A duplicate copy of this Information Disclosure Statement is enclosed.

Respectfully submitted,

KLARQUIST SPARKMAN CAMPBELL
LEIGH & WHINSTON, LLP

By



Kyle B. Rinehart
Registration No. 47,027

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cc: Patent Group Docketing Dept. (116626.8)
Docketing

INFORMATION DISCLOSURE STATEMENT O I P E AUG 24 2005 BY APPLICANT			Docket: 3382-51286		App: 09/196,836		
			Applicant: Hunt				
			Filed: November 20, 1998		Art Unit: 2786		
U.S. PATENT DOCUMENTS							
Init.*		Number	Date	Name	Class	Sub	Filed
		5,193,180	03/09/93	Hastings			
		5,247,678	09/21/93	Littleton			
		5,535,329	07/09/96	Hastings			
		5,987,247	11/16/99	Lau			
		6,088,717	07/11/00	Reed et al.			
		6,112,304	08/29/00	Clawson			
		6,134,559	10/17/00	Brumme et al.			
EXAMINER:			DATE				
*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.							

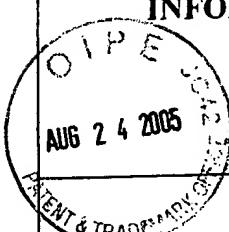
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>O I P E AUG 24 2005 P A T E N T & T R A D E M A R K S O U R C E</small>	Docket: 3382-51286	App: 09/196,836
	Applicant: Hunt	
	Filed: November 20, 1998	Art Unit: 2786

OTHER DOCUMENTS

		Galen C. Hunt and Michael L. Scott, "Coign: Automated Distributed Partitioning of Component Applications," Abstract from SOSP Work-in-Progress session, 1 pp. (October 1997).
		Galen C. Hunt and Michael L. Scott, "Coign: Automated, Distributed Partitioning of Component Applications," Poster from SOSP Work-in-Progress session, 9 pp. (October 1997).
		Galen C. Hunt and Michael L. Scott, "Contributions," Poster from SOSP Work-in-Progress session, 3 pp. (October 1997).
		Galen C. Hunt and Michael L. Scott, "Coign: Automated Distributed Partitioning of Component Applications," Presentation from SOSP Work-in-Progress session, 13 pp. (October 1997).
		Galen C. Hunt and Michael L. Scott, "Coign: Automated Distributed Partitioning of Component Applications," Slide Presentation from SOSP Work-in-Progress session, 5 pp. (October 1997).
		Kirtland, M., "Object-Oriented Software Development Made Simple With COM+ Runtime Services," <u>Microsoft Systems Journal</u> , Vol. 12, pp. 49-59 (November 1997).
		Narasimhan et al., "Exploiting the Internet Inter-ORB Protocol Interface to Provide CORBA With Fault Tolerance," Proceedings of the Third USENIX Conference on Object-Oriented Technologies and Systems, 11pp. (June 1997).
		Schmidt et al., "Object Interconnections, Object Adapters: Concepts and Terminology (Column 11)," <u>SIGS C++ Report</u> , 9pp (October 1997).
		Vinoski, S., "CORBA: Integrating Diverse Applications Within Distributed Heterogeneous Environments," <u>IEEE Communications</u> , 14(2) (February 1997).

EXAMINER:	DATE
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*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT 			Docket: 3382-51286	App: 09/196,836
			Applicant: Hunt	
			Filed: November 20, 1998	Art Unit: 2786
OTHER DOCUMENTS				
			Wang et al., "COMERA: COM Extensible Remoting Architecture," Proceedings of the 4 th USENIX Conference on Object-Oriented Technologies and Systems (COOTS '98), pp. 79-88 (April 1998).	
EXAMINER:			DATE	
<small>*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.</small>				



CLIENT/MATTER NO. 3382-51286 ATTY/SEC KBR:mlt

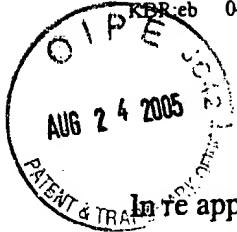
INVENTOR(S) Hunt

SERIAL NO. 09/11946, 8310 FILING DATE 11.20.98

The following, due _____, mailed 3.9.01,
by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

Amendment	After Final Rejection	Months Extension of Time
<input type="checkbox"/> Notice to File Msg. Parts - Date	<input checked="" type="checkbox"/> Letter to Official Draftsman	<input type="checkbox"/>
<input type="checkbox"/> Comb. Decl./POA	<input checked="" type="checkbox"/> Notice of Allowability	<input type="checkbox"/>
<input type="checkbox"/> Verf'd. Stmt. Claiming Sm. Entity Status	<input checked="" type="checkbox"/> Sht(s) Drawings	<input type="checkbox"/> Formal
In connection with Issuance of a Patent:		
<input type="checkbox"/> Supp. Declaration	<input checked="" type="checkbox"/> Form PTO-1449/Ref.	<input type="checkbox"/> Petition
<input type="checkbox"/> Issue & Advance Order fees	<input checked="" type="checkbox"/> Transmittal Ltr.	<input type="checkbox"/> dupl. <input type="checkbox"/> tripl.
<input type="checkbox"/> Surcharge - Late Filing Fee, Oath, or Declaration <input type="checkbox"/> Small Entity <input type="checkbox"/> All Others		
<input type="checkbox"/> Assignment to: _____ <input type="checkbox"/> PTO 1595		
<input type="checkbox"/> Check No. _____ for \$ _____	<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of: Galen C. Hunt
Application No. 09/196,836

Filed: November 20, 1998

For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING
UNDOCUMENTED INTERFACES, AND
DETECTING PAIR-WISE LOCATION
CONSTRAINTS

Examiner:

Date: April 4, 2001

Art Unit: 2786

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on April 4, 2001 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.


Kyle B. Rinehart
Attorney for Applicant

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)

COMMISSIONER FOR PATENTS
Washington, DC 20231

Sir:

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent.

Applicant filed this Information Disclosure Statement within three months of the filing date of a national application, within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, before the mailing date of a first Office action on the merits, or before the mailing of a first Office action after the filing of request for continued

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examination under § 1.114. However, if the Patent Office determines that a fee is required for Applicant to file this Information Disclosure Statement, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate** copy of this Information Disclosure Statement is enclosed.

Respectfully submitted,

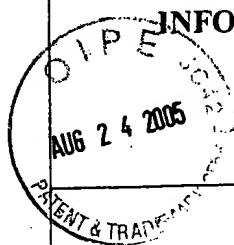
KLARQUIST SPARKMAN CAMPBELL
LEIGH & WHINSTON, LLP

By



Kyle B. Rinehart
Registration No. 47,027

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446
cc: Patent Group Docketing Dept. (116626.8)
Docketing



INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Docket: 3382-51286	App: 09/196,836
	Applicant: Galen C. Hunt	
	Filed: November 20, 1998	Art Unit: 2786

U.S. PATENT DOCUMENTS

Init.*		Number	Date	Name	Class	Sub	Filed

FOREIGN PATENT DOCUMENTS

		Number	Date	Country	Class	Sub	

OTHER DOCUMENTS

			Zielinski et al., "A Tool for Monitoring Software-Heterogeneous Distributed Object Applications," Proc. 15 th Int'l Conf. on Distributed Computing Systems, Vancouver, Canada, IEEE CS Press, pp. 11-18 (May 1995).

EXAMINER:	DATE
-----------	------

*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.



CLIENT/MATTER NO. 5382-51284 ATTY/SEC Krebs
INVENTOR(S): Galen C. Hunt

SERIAL NO. 09/196,836 FILING DATE 11/20/98
4/4/01

The following, due _____, mailed _____
by First Class Mail, was received in the U.S. PTO on the date stamped herein:

<input type="checkbox"/> Amendment	<input type="checkbox"/> After Final Rejection	<input checked="" type="checkbox"/> Months Extension of Time
<input type="checkbox"/> Notice to File Msg. Parts - Date	APR 09 2001	<input type="checkbox"/> Letter to Official Draftsman
<input type="checkbox"/> Comb. Decl./POA		<input type="checkbox"/> Notice of Allowability
<input type="checkbox"/> Verf'd. Stmt. Claiming Sm. Entity Status		<input type="checkbox"/> Sht(s) Drawings <input type="checkbox"/> Formal
<input type="checkbox"/> In connection with Issuance of a Patent	TRADEMARKS	<input type="checkbox"/> Form PTO-1449/Ref.
<input type="checkbox"/> Supp. Declaration <input type="checkbox"/> Form PTOL-85b		<input type="checkbox"/> Petition
<input type="checkbox"/> Issue & Advance Order fees		<input type="checkbox"/> Transmittal Ltr. <input type="checkbox"/> dupl. <input type="checkbox"/> tripl.
<input type="checkbox"/> Surcharge - Late Filing Fee, Oath, or Declaration		<input type="checkbox"/> Small Entity <input type="checkbox"/> All Others
<input type="checkbox"/> Assignment to: _____		<input type="checkbox"/> PTO 1595
<input type="checkbox"/> Check No. _____ for \$ _____		<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority



KBRmit 10/04/01 3382-51286 74516.doc

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Hunt
Application No. 09/196,836
Filed: November 20, 1998

For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING
UNDOCUMENTED INTERFACES, AND
DETECTING PAIR-WISE LOCATION
CONSTRAINTS

Examiner: --

Date: October 9, 2001

Art Unit: 2786

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on October 9, 2001 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.



Kyle B. Rinehart
Attorney for Applicant

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)

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COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

Sir:

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent.

Applicant filed this Information Disclosure Statement ("IDS") within three months of the filing date of a national application, within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, before the mailing date of a first Office action on the merits, or before the mailing of a first Office action after the filing of request for continued examination under § 1.114. As a result, no fee should be required to file this IDS.

However, if the Patent Office determines that a fee is required for Applicant to file this Information Disclosure Statement, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate** copy of this Information Disclosure Statement is enclosed.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By 
Kyle B. Rinehart
Registration No. 47,027

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446
cc: Docket
Patent Group Docketing Dept. (116626.8)



FF10

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Docket: 3382-51286	App: 09/196,836
		Applicant: Hunt	
		Filed: November 20, 1998	Art Unit: 2786

U.S. PATENT DOCUMENTS							
Init.*		Number	Date	Name	Class	Sub	Filed
YR		5,675,805	10/7/1997	Boldo et al.			
1		6,011,918	1/4/2000	Cohen et al.			
↓		6,044,224	3/28/2000	Radia et al.			

FOREIGN PATENT DOCUMENTS

		Number	Date	Country	Class	Sub	

OTHER DOCUMENTS

YR			Lea et al., "COOL: system support for distributed object-oriented programming," pages 1-18 (May 2, 1993).				

EXAMINER: <i>YR</i>	DATE <i>4/15/05</i>
*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.	

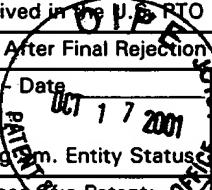
CLIENT/MATTER NO. 3382-51286 ATTY/SEC. KBR:mit

INVENTOR(S): H. J. F.

SERIAL NO. 09/196,836 FILING DATE 11.20.98 ✓

The following, due _____, mailed 10.9.01,
by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

<input type="checkbox"/> Amendment	<input type="checkbox"/> After Final Rejection	<input type="checkbox"/> Months Extension of Time
<input type="checkbox"/> Notice to File Msg. Parts - Date	<input type="checkbox"/> Letter to Official Draftsman	
<input type="checkbox"/> Comb. Decl./POA	<input type="checkbox"/> Notice of Allowability	
<input type="checkbox"/> Verf'd. Stmt. Claiming Am. Entity Status	<input type="checkbox"/> Sht(s) Drawings	<input type="checkbox"/> Formal
In connection with Issuance of a Patent:		
<input type="checkbox"/> Supp. Declaration	<input type="checkbox"/> Form PTO-85b	<input checked="" type="checkbox"/> IDS (✓)
<input type="checkbox"/> Issue & Advance Order fees	<input type="checkbox"/> Petition	<input type="checkbox"/> Form PTO-1449/Ref.
<input type="checkbox"/> Surcharge - Late Filing Fee, Oath, or Declaration	<input type="checkbox"/> Small Entity	<input type="checkbox"/> All Others
Assignment to: _____ PTO 1595		
<input type="checkbox"/> Check No. _____ for \$ _____.	<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority	
Other _____		



D/PD

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Galen C. Hunt

Art Unit: --

Application No. 09/196,836

Filed: November 20, 1998

For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING
UNDOCUMENTED INTERFACES, AND
DETECTING PAIR-WISE LOCATION
CONSTRAINTS

Examiner: Not yet assigned

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on November 14, 2002 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.


Kyle B. Rinehart
Attorney for Applicant

Date: November 14, 2002

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)

COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

COPY

Sir:

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Applicant filed this Information Disclosure Statement ("IDS") within three months of the filing date of a national application, within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, before the mailing date of a first Office action on the merits, or before the mailing of a first Office action after the filing of request for continued examination under § 1.114. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicant to file this

Information Disclosure Statement, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate** copy of this Information Disclosure Statement is enclosed.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By



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Registration No. 47,027

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AUG 26 2005

JC21

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Docket: 3382-51286		App: 09/196,836			
		Applicant: Galen C. Hunt					
		Filed: November 20, 1998		Art Unit: --			
U.S. PATENT DOCUMENTS							
Init.*		Number	Date	Name	Class	Sub	Filed
		6,026,484	2.2000	Golston	712	226	
		6,154,878	11.2000	Saboff	717	11	
		6,385,766	5.2002	Doran, Jr. et al.	717	11	
		6,393,476	5.2002	Barnhouse et al.	709	223	
		6,397,254	5.2002	Northrup	709	227	
		6,421,705	7.2002	Northrup	709	203	
		6,445,782	9.2002	Elfe et al.	379	201.01	
OTHER DOCUMENTS							
			Reimann et al., "User-oriented Criteria for the Selection of DSS Software," <i>Comm. Of the ACM</i> , Vol. 28, No. 2, pp. 166-179 (February 1985).				
EXAMINER:			DATE				
*Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.							

CLIENT/MATTER NO. 3382-5128 ATTY/SEC KBR:iar

INVENTOR(S): Galen C. Hunt

APP. NO. 09/1916,836 FILING DATE 11-20-98

The following, due 11-14-02, mailed 11-14-02

by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

<input type="checkbox"/> Amendment	<input type="checkbox"/> Marked Up Claims/Spec.	<input type="checkbox"/> After Final Rejection
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<input type="checkbox"/> Notice to File Missing Parts - Date <u> </u>		<input type="checkbox"/> Ltr to Draftsperson
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Assignment to: _____ Recordal Sheet		
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<input type="checkbox"/> Check No. _____ for \$ _____		<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority

CLIENT/MATTER NO. 3382-5128 ATTY/SEC KBR:iar

INVENTOR(S): Galen C. Hunt

APP. NO. 09/1916,836 FILING DATE 11-20-98

The following, due 11-14-02, mailed 11-14-02

by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

<input type="checkbox"/> Amendment	<input type="checkbox"/> Marked Up Claims/Spec.	<input type="checkbox"/> After Final Rejection
<input type="checkbox"/> Extension of Time/Extension Fee for <u> </u> Months		
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<input type="checkbox"/> Notice to File Corrected App. Papers - Date <u> </u>		<input type="checkbox"/> Notice-Allowability
<input type="checkbox"/> Comb. Dec./POA <u> </u> Sht(s) Drawings <u> </u> Late Fee		<input type="checkbox"/> Sht(s) Drawings
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Assignment to: _____ Recordal Sheet		
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<input type="checkbox"/> Check No. _____ for \$ _____		<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority

11-14-02



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Galen C. Hunt

Art Unit: n/a

Application No. 09/196,836

Filed: November 20, 1998

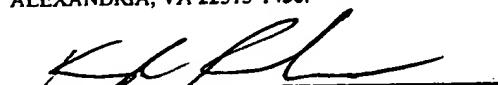
For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING
UNDOCUMENTED INTERFACES, AND
DETECTING PAIR-WISE LOCATION
CONSTRAINTS

Examiner: Not yet assigned

CERTIFICATE OF MAILING

Date: June 26, 2003

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on June 26, 2003 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.



Kyle B. Kinehart
Attorney for Applicant

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)(3)

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

Listed on the accompanying form PTO-1449 and enclosed herewith is an English-language document. Applicant respectfully requests that this document be listed as a reference cited on the issued patent.

Applicant filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicant to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A duplicate copy of this IDS is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in Rule 56.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

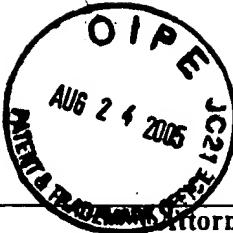
By



Kyle B. Rinehart
Registration No. 47,027

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446

cc: Client (116626.8)
Docketing



INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>JUN 30 2003 JC213</i> <i>PATENT & TRADEMARK OFFICE</i>		Attorney Docket Number	3382-51286
		Application Number	09/196,836
		Filing Date	November 20, 1998
		First Named Inventor	Galen C. Hunt
		Art Unit	n/a
		Examiner Name	Not yet assigned

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Name

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Country
				RECEIVED
				JUL 07 2003
				Technology Center 2100

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS			
		Pietrek, "Learn System-Level Win32 Coding Techniques by Writing an API Spy Program," <i>Microsoft Systems Journal</i> , pp. 17-44 (December 1994).			

EXAMINER SIGNATURE:	DATE CONSIDERED: 8/15/04
---------------------	--------------------------

* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

CLIENT/MATTER NO. 3382-51286 ATTY/SEC KBR:iar

INVENTOR(S): Galen C. Hunt

APP. NO. 09/196,836 FILING DATE 11-20-98

The following, due — —, mailed 6-26-03

by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

<input type="checkbox"/> Amendment	<input type="checkbox"/> Marked Up Claims/Spec.	<input type="checkbox"/> After Final Rejection
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<input type="checkbox"/> Notice to File Corrected App. Papers - Date		<input type="checkbox"/> Notice-Allowability
<input type="checkbox"/> Comb. Dec./POA	<input type="checkbox"/> Sht(s) Drawings	<input type="checkbox"/> Sht(s) Drawings
<input type="checkbox"/> Issue Fee Transmittal (Form PTOL-85b)		<input type="checkbox"/> Sequence Listing pages
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<input type="checkbox"/> Assignment to: _____ Recordal Sheet		
<input type="checkbox"/> Transmittal Ltr. + <u>1</u> <u>2</u> copy(ies)		<input type="checkbox"/> Request for Corrected Filing Receipt
Check No. _____ for \$ _____		<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority



KLARQUIST SPARKMAN, LLP
Intellectual Property and Patent Law

JUL 08 2003 121 S.W. Salmon St., Suite 1600
One World Trade Center

Portland, OR 97204-2988

KLAR
LEIGH WILSON, P.T.L.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Galen C. Hunt**Application No.** 09/196,836**Filed:** November 20, 1998**Confirmation No.** 9594

For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING
UNDOCUMENTED INTERFACES, AND
DETECTING PAIR-WISE LOCATION
CONSTRAINTS

Examiner: Haresh N. Patel**Art Unit:** 2126**Attorney Reference No.** 3382-51286

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney
for Applicant(s)

Kyle B. RinehartDate Mailed November 21, 2003**COPY****INFORMATION DISCLOSURE STATEMENT PURSUANT TO**
37 C.F.R. § 1.97(b)(3)

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent.

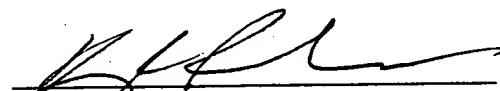
Applicant filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. (The Office action mailed on October 3, 2003 is not an Office action "on the merits" as it only imposes a restriction requirement. MPEP 609.B.1(a).) As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicant to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A duplicate copy of this Information Disclosure Statement is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By



Kyle B. Rinehart
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05/26/04 WED 10:27 FAX 228 9446

KLARQUIST SPARKE

KBR:mr 11/21/03 3382-51286 236438MS 1 16.8

008


**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Attorney Docket Number	3382-51286
Application Number	09/196,836
Filing Date	November 20, 1998
First Named Inventor	Hunt
Art Unit	2126
Examiner Name	Haresh N. Patel

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Name
		5,021,947	6.4.1991	Campbell et al.
H.F.		5,748,962	5.5.1998	Brechtel et al.
		5,978,583	11.2.1999	Ekanadham et al.

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Country

OTHER DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Other Documents

EXAMINER
SIGNATURE: *H.F.*DATE
CONSIDERED: 8/15/04

* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement (1449) Page 1 of 1

PAGE 89 * RCVD AT 5/26/2004 1:29:32 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/2 * DNIS:7467239 * CSID:228 9446 * DURATION (mm:ss):02:48

BEST AVAILABLE COPY

CLIENT/MATTER NO. 3387-51286 ATTY/SEC KDR:iar
 INVENTOR(S): Galen C. Hunt
 APP. NO. 09/196,836 FILING DATE 11.20.98
 The following, due 12.3.03, mailed 11.21.03

by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

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CLIENT/MATTER NO. 3387-51286 ATTY/SEC KDR:iar
 INVENTOR(S): Galen C. Hunt
 APP. NO. 09/196,836 FILING DATE 11.20.98
 The following, due 12.3.03, mailed 11.21.03

by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Galen C. Hunt**Application No.** 09/196,836**Filed:** November 20, 1998**Confirmation No.** 9594

For: INSTRUMENTATION FOR RELATING
INTERFACES AND UNITS, WRAPPING
INTERFACES, HANDLING UNDOCUMENTED
INTERFACES, AND DETECTING PAIR-WISE
LOCATION CONSTRAINTS

Examiner: Haresh N. Patel**Art Unit:** 2126**Attorney Reference No.** 3382-51286-01CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney
for Applicant

Date Mailed

Kyle B. Rinehart

**INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)(3)**

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent.

Applicant filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicant to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A duplicate copy of this Information Disclosure Statement is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. § 1.56.

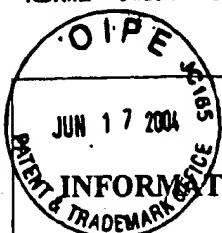
Respectfully submitted,

KLARQUIST SPARKMAN, LLP

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446
cc: Client (116626.8)
Docketing

By

Kyle B. Rinehart
Registration No. 47,027



INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Attorney Docket Number	3382-51286-01
		Application Number	09/196,836
		Filing Date	November 20, 1998
		First Named Inventor	Hunt
		Art Unit	2126
		Examiner Name	Haresh N. Patel
Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS	
		Hunt, "Automatic Distributed Partitioning of Component-Based Applications," Ph.D. thesis, University of Rochester, Rochester, New York, 135 pp. (1998).	
		Hamlin, "Configurable Applications for Satellite Graphics," <i>Proc. Third Annual Conf. on Computer Graphics and Interactive Techniques</i> (SIGGRAPH '76), pp. 196-203 (1976).	
H.P.		Hamlin et al., "Configurable Applications for Graphics Employing Satellites (CAGES)," <i>Proc. Second Annual Conf. on Computer Graphics and Interactive Techniques</i> (SIGGRAPH '75), pp. 9-19 (1975).	
		Kimelman et al., "Partitioning and Assignment of Distributed Object Applications Incorporating Object Replication and Caching," <i>Proc. ECOOP '98 Workshop on Object-Oriented Technology</i> , pp. 313-314 (July 1998).	
		Kimelman et al., "Dynamic Application Partitioning in VisualAge Generator Version 3.0," <i>Proc. ECOOP '98 Workshop on Object-Oriented Technology</i> , pp. 547-548 (July 1998).	
		Michel et al., "Experience with Distributed Processing on a Host/Satellite Graphics System," <i>Proc. Third Annual Conf. on Computer Graphics and Interactive Techniques</i> (SIGGRAPH '76), pp. 190-195 (1976).	
		Van Dam et al., "Intelligent Satellites for Interactive Graphics," <i>Proc. IEEE</i> , Vol. 62, No. 4, pp. 483-492 (1974).	

EXAMINER SIGNATURE:	<i>Haresh Patel</i>	DATE CONSIDERED:	<i>8/15/04</i>
* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.			

CLIENT/MATTER NO. 3382-51286 ATTY/SEC KBR:iar
 INVENTOR(S): Galen C. Hunt
 APP. NO. 09/1010,836 FILING DATE 11-20-98
 The following, due —, mailed 6-14-04
 by First Class Mail, was received in the U.S. PTO on the date stamped hereon:

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<input type="checkbox"/> Extension of Time/Extension Fee for	<input type="checkbox"/> Months	<input type="checkbox"/> Revised Drawings	<input type="checkbox"/> sht(s)	
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<input type="checkbox"/> Check No. _____ for		<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority		
\$ _____				

CLIENT/MATTER NO. 3382-51286 ATTY/SEC KBR:iar
 INVENTOR(S): Galen C. Hunt
 APP. NO. 09/1010,836 FILING DATE 11-20-98
 The following, due —, mailed 6-14-04
 by First Class Mail, was received in the U.S. PTO on the date stamped hereon

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JUN 17 2004
PATENT & TRADEMARK OFFICE

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<input type="checkbox"/> Check No. _____ for		<input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority		
\$ _____				

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Galen C. Hunt

Application No. 09/196,836

Filed: November 20, 1998

Confirmation No. 9594

For: TOOLS AND TECHNIQUES FOR
INSTRUMENTING INTERFACES OF
UNITS OF A SOFTWARE PROGRAM (as
amended)

Examiner: Haresh N. Patel

Art Unit: 2154

Attorney Reference No. 3382-51286-01

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney
for Applicant(s) KCPN

Date Mailed January 7, 2005

COPY

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request.

This Information Disclosure Statement is being filed after the mailing date of a first

Office action on the merits, and before the mailing date of a final Office action, a Notice of Allowance, or an action that otherwise closes prosecution, and a \$180.00 fee under 37 C.F.R. § 1.17(p) may be charged to Deposit Account No. 02-4550. If the Patent Office determines that an additional fee is required to file this Information Disclosure Statement, please charge any such fees to Deposit Account No. 02-4550. Two copies of this Information Disclosure Statement are enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

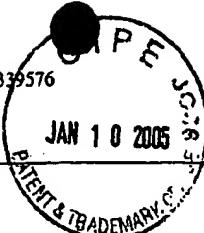
By



Kyle B. Rinehart
Registration No. 47,027

One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, Oregon 97204
Telephone: (503) 226-7391
Facsimile: (503) 228-9446

cc: Client (116626.8)
Docketing


**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Attorney Docket Number	3382-51286-01
Application Number	09/196,836
Filing Date	November 20, 1998
First Named Inventor	Hunt
Art Unit	2154
Examiner Name	Haresh N. Patel

U.S. PATENT DOCUMENTS

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
H.P.		5,390,329	02.14.1995	Gaertner et al.
		5,634,114	05.27.1997	Shipley
		6,101,325	02.08.2000	Flaat
		6,199,075	03.06.2001	Ungar et al.
		6,412,019	06.25.2002	Gibbons et al.
↓		6,519,767	02.11.2003	Carter et al.

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
H.P.		Harchol-Balter et al., "Exploiting process lifetime distributions for dynamic load balancing," <i>ACM</i> , pp. 13-24 (1996).
		Hong et al., "Classifying and Retrieving Software Components Based on Profiles," <i>IEEE</i> , pp. 1756-1760 (1997).
		Keller et al., "Binary Component Adaptation," <i>ECOOP '98</i> , pp. 307-29 (1998).
↓		Purtilo et al., "Module Reuse by Interface Adaptation," <i>Software - Practice and Experience</i> , vol 21, no. 6, pp 539-56 (June 1991).

EXAMINER SIGNATURE: <i>Haresh N. Patel</i>	DATE CONSIDERED: 4/4/05
--	-------------------------

* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

CLIENT/MATTER NO. 3382-51286-01 ATTY/SEC GL / KLP

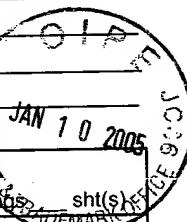
INVENTOR(S): Hunt

APP. NO. 09/196,836

FILING DATE 11-20-98

O 1 P
1-7-05

The following, due _____, mailed _____, by First Class Mail, was received in the U.S. PTO on the date stamped hereon:



<input type="checkbox"/> Amendment/Response	<input type="checkbox"/> After Final Action
<input type="checkbox"/> Extension of Time/Extension Fee for _____ Months	
<input type="checkbox"/> Revised Drawings <input type="checkbox"/> Sht(s) Drawings	
<input type="checkbox"/> Notice to File Missing Parts - Date _____	<input type="checkbox"/> Ltr to Draftsperson
<input type="checkbox"/> Notice to File Corrected App. Papers - Date _____	<input type="checkbox"/> Notice-Allowability
<input type="checkbox"/> Comb. Dec./POA <input type="checkbox"/> Sht(s) Drawings	<input type="checkbox"/> Sht(s) Drawings
<input type="checkbox"/> Issue Fee Transmittal (Form PTOL-85b)	<input type="checkbox"/> Sequence Listing _____ pages
<input type="checkbox"/> Supp. Dec. <input type="checkbox"/> Issue/Adv. Order fees	<input type="checkbox"/> Stmt in Comp. <input type="checkbox"/> Disk
<input checked="" type="checkbox"/> IDS	<input checked="" type="checkbox"/> Form PTO-1449/Ref.
<input type="checkbox"/> Petition	
Assignment to: _____ Recordal Sheet	
<input checked="" type="checkbox"/> Transmittal Ltr. + <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 copy(ies) Request for Corrected Filing Receipt	
<input checked="" type="checkbox"/> Check No. <u>112849</u> for <input checked="" type="checkbox"/> Deposit Acct. 02-4550 Authority <u>\$ 180</u>	